ACC NR: AF6022869

through the coating. In a moist atmosphere containing HCI vapor, which easily penetrates through the film and activates the anodic process, the protective proporties of trates through the film and activates the anodic process, the protective proporties of the polymer films are completely determined by their mosture permeability. In this case, polymer films are completely determined and its structure are the basic factors the chemical nature of the polymer material and its structure are the basic factors determining the protective proporties of the films. A quantitative description of the protective effect of polymer films is given. Depending upon the nature of the film, moisture content of the atmosphere, and content of HCl, the protective effect changes by 2 to 3 orders of magnitude. Orig. art. has: 6 figures and 3 formulas.

SUB CODE: 11/ SUEM DATE: none/ ORIG REF: 014/ OTH REF: 003

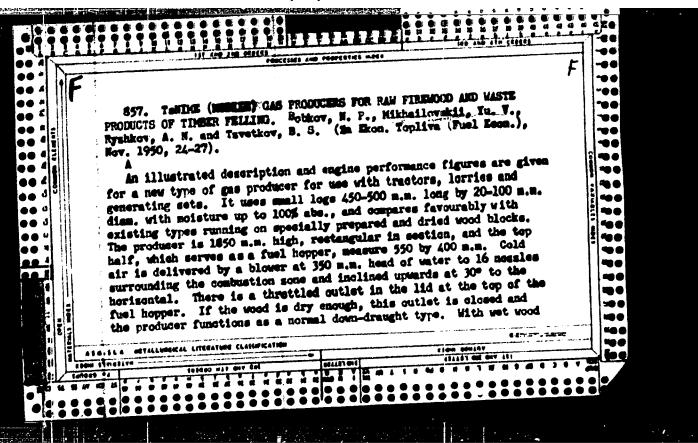
	AP6006723	SOURCE CODE: UR/0303/66/000/001/0053/0055
THOR	Sokolova, Ye. H.; Nau	mova, S. F.; Mikhaylovskiy, Ku. N.; Zubov, P. I.
31 no		15
TLE:	New rapid method of ev ls in corrosive media	valuating the protective properties of polymer coatings
	${0}1$	4-1 4 4kb
WKCE 1	Lakokrasochnyye mater	rialy 1 ikh primeneniye, no. 1, 1966, 53-55
PIC T	AGS: protective coatin	g, corrosion
oating r gase	s on metals in any corr ous media). It involve ase during the testing.	proposed for evaluating the protective properties of resive media (i. e., liquid electrolytes, nonelectrolytes as the recording of the change in the resistance of the PE-500 polyethylene, PVKh-990 polyvinyl chloride and form of films 90, 190 and 60 u thick respectively) in
Cl and agnesic fits immedia ropert	HNO3 vapors. The polyum films evaporated ont high corrosion activity tely after the sample of ies of the polymer film - colyethylene for both	mer films were bonded with polyisobutylene adhesive to to glass (magnesium was chosen as the metal base because y). In the HCl atmosphere, magnesium begins to dissolve comes in contact with the HCl vapor. The protective ms studied increase in the series polyvinyl chloride — h HCl and HNO ₂ . The results lead the authors to recommend the protective properties of paint and

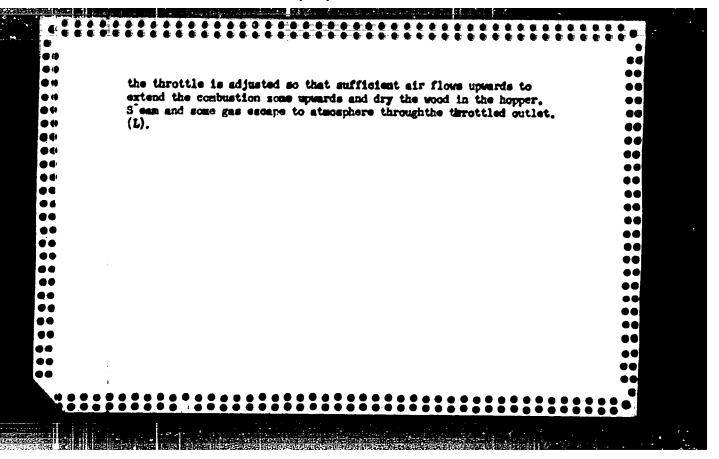
4 -1	P6006723	stings on meta	le Orig. ar	on has: 4 figures	and 1 formula.	
UB CODE:	11/ SUBM DATE	a none/ ORIG	REF: 008/	oth reft 004	-	
						-

MIKHAYLOVSKIY, Yu.N.; NIKITENKO, Ye.A.; LEONOV, V.V.; TOMASHOV, N.D.

Electrochemical protection of gas pipelines from corrosion caused by stray currents. Gaz. prom. 7 no.9:37-42 '62.

(MIRA 17:8)





KIRTUKHIN, Anatoliy Mikhaylovich; GCRBACHAVSKIY, Viktor Andreyevich;

LESIKEVICH, Andrey Ivanovich; MIKHAYLOWILL Inche Feavologyich;

GATSKEVICH, A.I., redaktor; VCRCB'TEVA, M.B., redaktor; KARASIK,

M.P., tekhnicheskiy redaktor

[Operation of hauling equipment] Ekspluatatsiia tiagovykh mashin.

Moskva, Goslesbumidat, 1954. 391 p. (MLRA 8:4)

(Iumbering—Equipment and supplies)

KASHECHKIM, W.B.; PERKL'MUTER, W.M.; VINOGOROV, G.K.; YEEMGLAYEV, V.M.;
ITIBA, L.S.; MIRHATLOYSKIY, Yu.V.; BOLDOY, M.Je.; TSETLLE, A.M.;
ZHURAVLEV, B.A., red.izd-ve; BACHURIHA, A.M., tekhn.red.

[Handbook for electrical engineers in the lumber industry]
Spravochnik elektromekhanika lespromkhosa. Moskva, Goslesbunizdat,
1958. 320 p. (MIRA 12:4)

1. BauchnyperabotnikiTSentral'nogo nauchno-issledovatel'skogo
instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for
all except Zhuravlev, Bachurina).

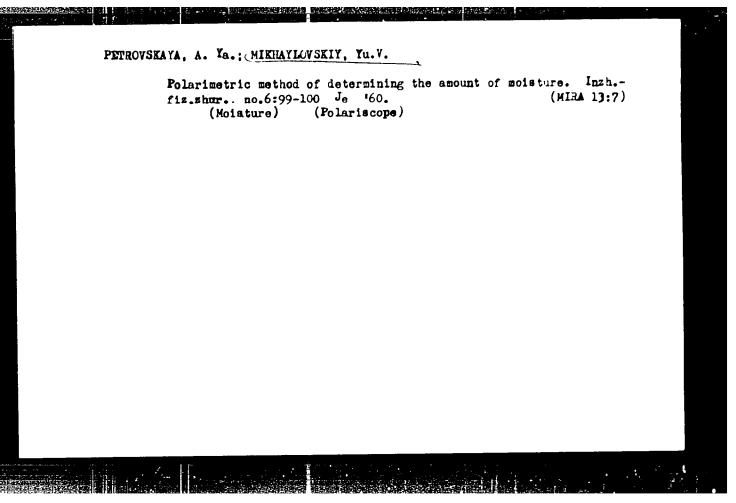
(Electric engineering—Handbooks, menuals, etc.)
(Lumbering—Machinery)

ARTAMOHOV, Mikhail Dmitriyevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich;
PUSHKAREV, B.A., retsenzent; MCROZOV, K.P., retsenzent;
ZAYCHIK, G.I., red.; GORYUNCVA, L.K., red.izd-ve; BACHURINA,
A.M., tekhn.red.

[Traction machinery in the logging industry] Tiagovye mashiny
na lesozagotovkakh. Moskva, Goslesbumizdat, 1959. 326 p.

(MIRA 13:5)

(Tractors)



GORBACHEVSKIY, Viktor Andreyevich; LESHKEVICH, Andrey Ivanovich;

MIKHAYLOVSKIY, Yuriy Vsevolodovich; SHESTAKOV, Boris

Aleksandrovich; MEDNIKOV, I.W., retsenzent; MC:020V, K.P.,
retsenzent; KHASMAH, P.Ya., otv. red.; PLESKO, Ye.P., red.;
GRECHISHCHEVA, Z.I., tekhm. red.

[Fundamentals of lumbering and the operation of machines and
mechanisms] Osnovy lesozagotovok i ekspluatatsiia mashin i mekhanizmov. V.A.Gorbachevskii i dr. Moskva, Goslesbumizdat,
1961. 319 p.

(Lumbering—Machinery)

Determining the line of the center of gravity Mashinostroitel no.1:46 Ja 61. (Balancing of machinery)	in static belancing. (MIRA 14:3)
ÿ	
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GRATSIANSKIY, Vladimir Nikolayevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich;
Prinimal uchastiye ROMANENKO, P.N.; MIKHAYLOVA, L.G., red. izdva: GRECHISHCHEVA. V.I., tekhn. red.

[Fundamentals of heat engineering and power plants] Osnovy teplotekhniki i silovye ustanovki. Izd., perer. i dop. Moskva, Goslesbumizdat, 1962. 434 p.

(Heat engineering) (Power plants)

PROKHOROV, Vladimir borisovich; MIKHAYLOVSKIY, Yu.V., kand. tekhn.
nauk, retenzent; SOLOV'YEV, F.S., otv. red.

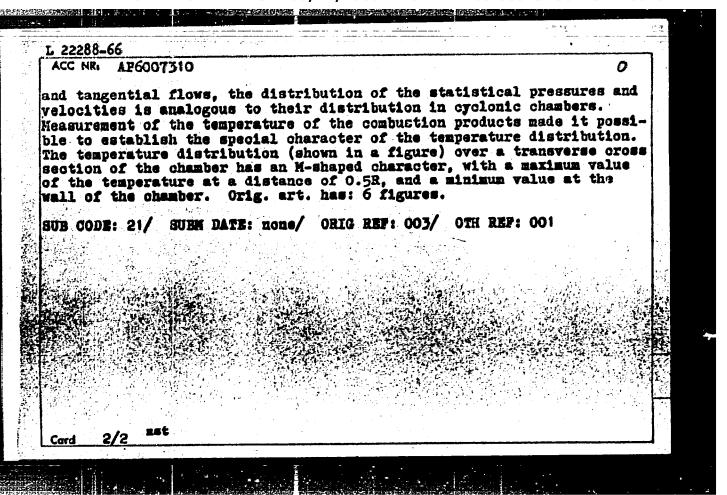
[Operation of machines in the lumbering industry] Ekspluatasiia mashin v lecomagotovitel'noi promyahlennosti.

Moskva, Goslesburizdat, 1963. 382 p. (MIRA 17:6)

ARTAMONOV, Mikhail Dmitriyevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich; GATSKEVICH, V.A., red.

[The locomobile and diesel engine in lumbering] Lokomobil' i dizel' v lesnoi promyshlennosti. Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 263 p. (MIRA 17:7)

ENT(p)/T ACC NR: AP6007310 UR/0096/66/000/003/0069/0070 AUTHOR: Hikhaylovskiy, Yu.V. (Engineer) ORG: Penzensk Artillery Engineering School (Penzenskoye artilleriyskoye inzhenernoyeuchilishche) TITLE: Hethod for the combustion of a gaseous fuel SOURCE: Teploenergetika, no.3, 1966, 69-70 TOPIC TAGS: combustion chamber test, gas fuel, natural gas, confuction ABSTRACT: The experiments were carried out using a vortical burner and an experimental combustion chamber. The burner was a steel combustion chamber screwed onto a conventional laboratory Bunsen burner. Each combustion chamber had three tangential inlets through which the working substance (compressed air, sometimes nitrogen) was introduced. By this method, a whirling motion of the axial flow of the gaseous fuel was established. One of the burners was fitted witha quartz tube to increase the volume of the combustion chamber and to make possible visual observation of the combustion process with axial feed of the gas, whose turbulence was increased by tangential streams of compressed air. article shows a scheme of the experimental apparatus. The experimental results show that with flow into the chamber of cold interacting axial عا Card 1/2 UDC: 541. 126:662.76.001.5



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110015-4"

ACC NR: AP7003657	SOURCE CODE: UR/0079/66/036/003/1442/1444
TITLE: Reaction of compounds with to facids. II. Reaction of phosphit SOUNCE: Zhurnal obshchey khimil, v. TOPIC TAGS: erganic phosphorus compsynthetic process ABSTRACT: N-chloro-N-allgrung-thance	rivalent phosphorus with n-chloramides tes with n-chloro-n-alkylurethans 36, no. 8, 1966, 1442-1444 found, IR spectrum, ester, organic for see with trially pacagastic to 1977 for seen in the trially pacagastic to 1977
earlier by the authors. The dialical are colorless free-flowing liquids,	miles with trialed phosphites, resided, esters of N-alkylurethanephosphoris aside readily soluble in water and most organic hesizes (ten for the first time) and ora were studied. Orig. act. has: I table.
SUB CODE: 07 / SUBM DATE: 10Ju165	/ ORIG REF: 004 / OTH KOF: 002
Card 1/1 jb	4001,547.495.1 0126 0280

ACC NR. AR6035435

SOURCE CODE: UR/0276/66/000/008/B098/B098

AUTHOR: Mikhaylyuk, E. A.

TITLE: Thread tapping in titanium alloys with superposition of ultrasonic oscilla-

tions

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8B620

REF SOURCE: Tr. Kafedry proiz-va letatel'n. apparatov. Kyubyshevsk. aviats. in-t,

vyp. 20, ch. 2, 1965, 227-233

TOPIC TAGS: titanium alloy, thread cutting, ultrasonic machining, ultrasonic vibration/ VT-14 titanium alloy

ABSTRACT: As a result of investigations it is established that when ultrasonic oscillations are applied to the tap, the total torque is greatly decreased, especially in the case of longitudinal oscillations. When tapping a thread in heat-treated titanium alloy VT-14, the bottoms of the threads become welded together, and the worked material sticks to the rear surface of the tooth of the tap, thus deteriorating the accuracy and the quality of the tap. None of this occurs when the thread is cut with ultrasound, especially when the tap is made to oscillate longitudinally. 4 illustrations, 1 table. Bibliography, 3 titles. L. Tikhonova [Translation of abstract]

SUB CODE: 13, 11.

Card 1/1

UDC: 621.99

EWT(d)/EWT(1)/EPF(m)-2/EWP(c) __IJP(c) __WW L 10287-66 SOURCE CODE: UR/0126/65/020/003/0339/034 ACC NAT AF5025316 AUTHOR: Mitheylyuk, I. P. ORG: Chernovitskiy State University (Chernovitskiy gosudarstvennyy universitet) 44,55 TITLE: Effect of temperature on oscillating spectra of crystals 21,44,53 SOURCE: Finika metallov i metallovedeniye, v. 20, no. 3, 1965, 339-344 TOPIC TAGS: thermal effect, eluminum, silver, crystal lattice structure, a formic spectrum ABSTRACT: An experimental study of the effect of temperature on the character of dispersion curves of aluminum made by K. Larson, W. Dahlung, and S. Holaryd (Arkiv fys., 1960, 17, 369) showed that in the temperature range of 300 - 900 K the values of all spectrum frequencies decreased noticeably with increased temperature. The effect of temperature on the displacement of frequencies of the oscillating spectra was evaluated in the present work for aluminum and silver lattices by the superposition of the Debye and Einstein spectra. The characteristic frequencies of the spectra decreased linearly with increased UDC: 548.4 Cord 1/2

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ACC NR: AP5025316

temperature in the 200 - 200 K sange. The effect of temperature on the displacement of oscillating spectra towards lower temperatures was attributed to the enharmonicity of thermal oscillations of the lattices. The moun square displacements of stone in the lattices were calculated and compared with the experimental data in this temperature range. The effect of temperature on the thermal displacement of atoms evaluated from frequency changes with changing temperature agreed satisfactorily with experimental data. A certain amount of qualitative disagreement for aluminum was caused by the high degree of an-harmonicity of its lattice. The study showed that temperature does not effect the radical changes in the form of the spectra. The anharmonic effects result only in monotonic displacement of spectra towards low frequencies. The author thanks V. P. Mithel chenko and N. G. Bekulich for assistance with this study. Orig. art. has: 2/figures, 7 formulas and 2 tables.

SUB CODE: 20,11 /

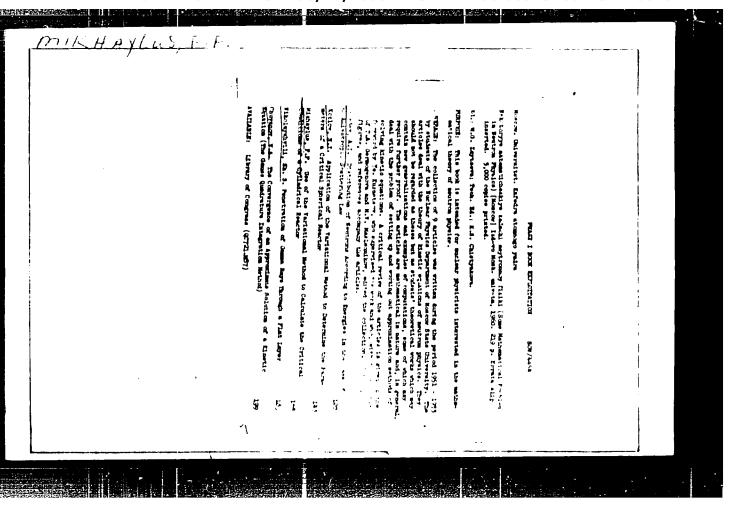
JUV, 89-4-6-3/30 Marchuk, G.I., Mikhaylus, F.F. AUTHORS: The Resonance Absorption of Neutrons in an Infinite Uniform TITLE: Medium (Rezonansnoye pogloshcheniye neytronow w beskonechnoy odnorodnoy awada) Atompaya exergiya, 1958. Vol 4, Nr 6, pp 520-530 (USSR) PERIODICAL: Moderation of neutrons takes place in an infinite uniform medium ABSTRACT: which has strong resonance absorption and in which neutron sources are uniformly distributed. Solution of the adjoint equation is an expression for the probability that a neutron with the energy B is not subjected to resonant capture during the process of moderation up to a certain asymptotic energy. The scattering function of the neutrons in the described medium is first set up, after which the adjoint equation for neutron moderation is derived. A method for the numerical solution of the moderation equation and the adjoint equation is then given. In an example the method developed is applied to the first resonance level of U^{238} (E₀ = 6.7 eV) both for pure uranium and for umanium vaide... Card 1/5

Uniform Medi	e Absorption of Nautrons in an Infinite	307, 69-4-6-3/30
	Solution of the fundamental and adjoint p to apply the perturbation functional for by Doppler broadening upon the resonance The following ralues of the resonance int sonance level of U ²³⁸ are given:	the influence exercised integral.

	070	$J = - \operatorname{inq} (u_{as})$
	Pure U ²³⁸	UO 2
According to the exact solution	n	30 2
of the fundamental equation According to Fermi's approxi-	52.59	3.088
mation	818	20.04
According to Wigner's		20.04
approximation	31.3	3.140
According to the Greiling		, ,
Gentzel approximation	39.2	5.188
According to the solution	-	<i>71.100</i>
of the adjoint equation	52.66	3.084

Card 2/3

The Resonanc Uniform Medi	e Absorption of Neutrona in a um		89-4-6-3/30
		J =: 	lnq (u _{as})
	_	Pure U ²³⁸	00 ₂
	In consideration of	(O)	
	Doppler broadening	52.59 (T=0°K)	3.09
		51.12 (1=419°K)	3.28
	Calculated according to	50.93 (T=655%)	3.31
	the perturbation theory	51.04 (T=419 ⁰ K)	3.23
	, and the same of	50.89 (T=655°K)	3.26
	There are 3 figures, 2 tab Soviet.	les and 5 references,	of which are
SUBMITTED:	December 20, 195?		
	 NeutronsAbsorption Perturbation theoryAppeations 		
Card 3/3			



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AUTHOR: M

Mikhaylus, F. F.

TITLE:

Calculating neutron resonance absorption in homogeneous media

SOURCE:

Teoriya i metody rascheta yadernykh reaktorov; sbornik statey. Ed. by G. I. Marchuk. Moscow, Gosatomizdat, 1962, 160 - 178

TEXT: A direct numerical method for solving the slowing-down equation of neutrons is proposed and set out. The effects taken into account are those that necessitate no assumptions as to the position of and distance between levels where resonance capture occurs, e.g. interference of potential scattering and resonance scattering, Doppler broadening of the levels, etc. The slowing-down equation is of the form

$$\psi(u) = \sum_{v=1}^{m} \frac{1}{1-\alpha_{v}} \int_{u-\Gamma_{v}}^{u} A^{(v)}(u^{i}) e^{-(u-u^{i})} \psi(u^{i}) du^{i}, \quad u_{N} > u > 0; \quad \psi(u) = \frac{1}{k}, \quad u \leq 0$$

$$A^{(v)}(u) = \frac{\sum_{s}^{(v)}(u)}{\sum(u)}, \quad \alpha_{v} = \left(\frac{M_{v} - 1}{M_{v} + 1}\right)^{2} \tag{2}$$

Calculating neutron resonance...

S/869/62/000/000/008/012 B102/B186

and describes the neutron collision density in an infinite homogeneous medium containing uniformly distributed sources. A numerical method for solving (2) is then worked out, which enables the collision density and the neutron absorption probability to be calculated for a given lethargy interval. The method is based on applying the Wigner approximation, i.e.

the kernel of (2) is replaced by $\frac{1}{\xi} \exp(-(u-u')/\xi)$ and so $\psi_0(u) = \frac{1}{\xi} \exp\left(\frac{u}{B(u')du'}\right)$. $\psi(u)$ is equated to $\chi(u)\psi_0(u)$, and the equation solved to find $\chi(u)$. This is demonstrated step by step. The results are used to calculate several parameters for two-component mixtures of χ^{238} and Be⁹, χ^{12} or χ^{16} . There are 4 figures and 10 tables.

Card 2/2

MINHAYLUS, F. F.; ZOLCINGEIN, V. G.: YERMAKOV, S. M.

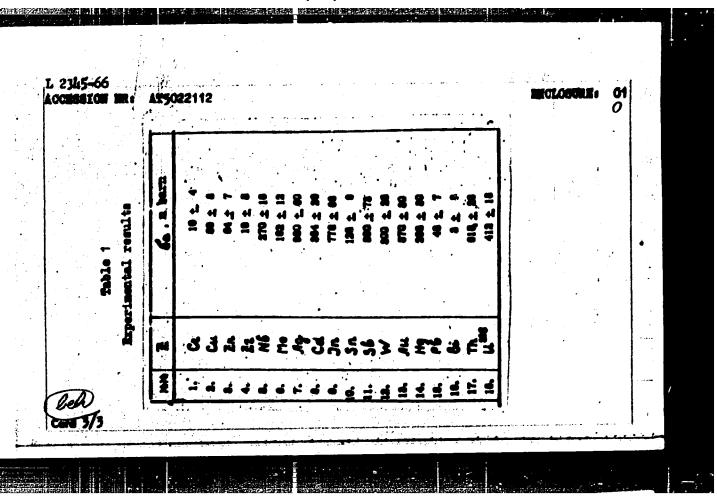
"Solution methods of transport equation in intemageneets and finite method."

report submitted for 3rd Inti Jonn, Peaceful Uses of Atomic Energy, Jeneva,
31 Aug-9 Sep (m.)

UR/5158/65/000/003/0001/0019 EWT(m)/EPF(n)-2/EWA(h) AT5022112 ACCESSION IR: TITIE: Absolute determination of absorption cross section for 24 Kev neutrons SCURCE: Chminsk. Fisiko-energeticheskiy institut. /Doklady/, no. 3, 1965. Absolutnye immereniya secheniy pogloshcheniya neytronov s energiyey 24 kev, 1-15 TOPIC TAGS: neutron absorber, neutron cross section, neutron absorption, neutron capture, neutron counter, neutron detector, Monte Carlo method ABSTRACT: The influence of a particular experimental method used in the determination of neutron absorption cross section on the magnitude of the cross section was studied, and neutron absorption cross sections for 18 different metals for 24 Kev electrons were determined. The data obtained were compared with those reported in the literature. The neutron source was (Sb - Be). The cross sections were determined by the spherical geometry transmission method. The measurements were carried out using two different counting arrangements, viz: an all-wave long counter and a water tank equipped with a system of dividing chambers. An experimental procedure similar to that of H. W. Schmitt and C. W. Cook (Muol. Phys. 20, 202, 1960) was used. The effect of resonance blocking on the cross section magnitude was also investigated. All experimental results were treated according to the Monte Carlo

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	method and are presented in Table 1 on the Enclosure. It is concluded that, with the exception of lead, the data obtained are in good agreement with those of Schmitt and Cook (see reference above). The authors thank 4. I. Layring and 0. D. Kasachkovak'y for their interest in this work and N. A. Artenov, V. V. Piakinov, Yu. M. Militin, and L. Ye. Fedorov for the help received in setting up the apparatus. Orig. art. has: 2 tables and 4 equations.					
ار ا ا اخت	ASSOCIATION: Figike-ener			(Physics and P.	mer Institute	,
	Chainet)	F GL	01		· SUB CODE: HI	
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EWT(m)/EPF(n)-2/EWA(h) UR/0089/65/019/001/0005/0007 AP5019802 ACCESSION NR: 539.17.02.:559.172.4 AUTHOR: Belanova, T. S.; Ban'kov, A. A.; Mikhaylus, F. F.; Stavicakly, Yu. Ya. TITLE: Absolute measurements of the absorption cross sections of 24-kev neutrons SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 3-7 TOPIC TAGS: neutron eross section, neutron absorption, measuring apparatus ABSTRACT: Inasmuch as the published cross section values were obtained by methods sensitive to the softening of the incident neutrons, the authors made their messurements by the transmission method and with a spherical geometry, using en allwave detector whose efficiency does not depend on the neutron energy in the investigated region. An Sb-Be neutron source, with outside diameter 30 mm and with beryllium cladding 2, 4, and 6 mm, was used. The source intensity was 108 neut/sec. The all-wave neutron detector comprised a long counter and an independent water tank with a system of integrating fission chambers. The measurement setup is shown in Fig. 1 of the Enclosure. The measured samples were made in the form of spherical layers with the neutron source placed inside. Some elements were in pure form, and others included a lead-bissuth alloy as a scatterer to improve the accuracy. The errors are analyzed and the data reduction method is discussed in detail. The Card

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ACCESSION NR: AP7019802

obtained cross sections are listed in Table 1 of the Enclosure. with the data of Schmitt and Cook (Nucl. Phys. v. 20, 202, 1960) if their correc-The results agree tion for resonance blocking is disregarded. Some discrepancies with results by others are mentioned. "The authors thank A. A. Levnunckiy and O. D. Kazachkovskiy for continuous interest in the work, and N. A. Artesov, V. V. Piskunova, Yu. M. Nikitin, and L. Ye. Fedorov for help with the adjustment of the apparatus, the measurements, and the data reduction." Orig. art. has: 5 figures and 2 tables.

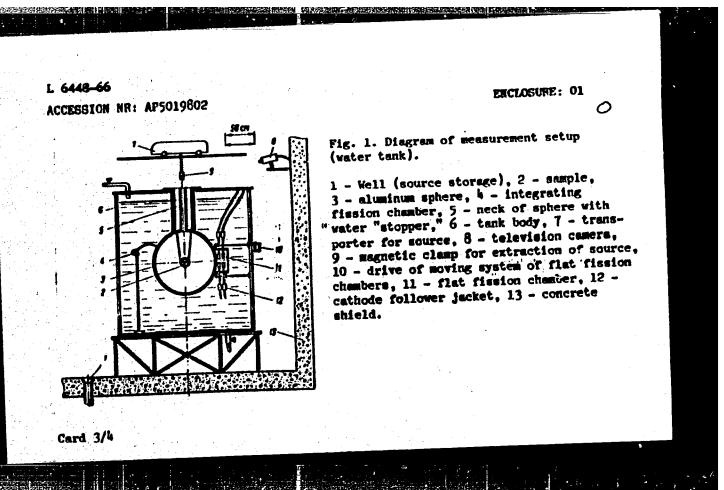
ASSOCIATION: none

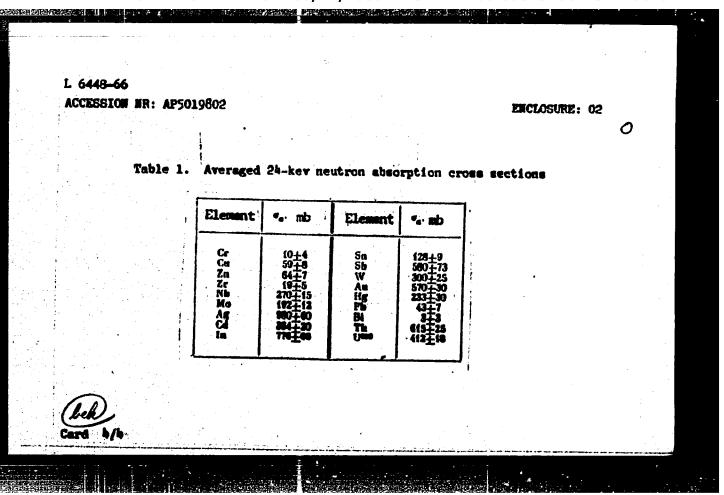
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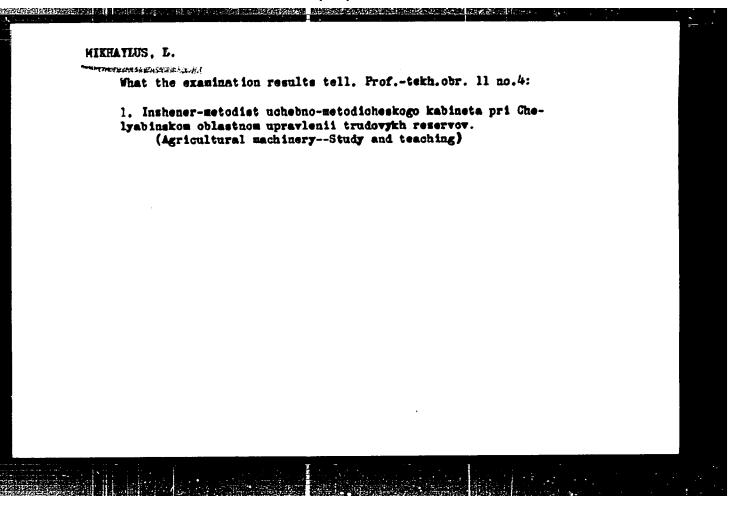
** Constantion of winding operations using **ename*) coated wires.

** aktrotekhnika 36 no.10.35-57 0 **65.

(Mira 18:10)

06997-67 EWT(m) ACC NR AP6021530 SOURCE CODE: UR/0089/66/020/006/0518/0520 AUTHOR: Zvonarev, A. V.; Koleganov, Yu. F.; Mikhaylus, F. F.; Mikolayev, M. N. ORG: none TITLE: Measurement of neutron spectra in the energy region up to 3 kev by resonant indicators SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 518-520 TOPIC TAGS: neutron spectroscopy, reactor neutron flux, fast neutron, neutron capture/ ABSTRACT: The authors propose a modification of the method of V. I. Golubev et al. (Atomnaya energiya v. 11, 1961) for measuring neutron spectra at different points inside a nuclear reactor through the use of resonant self-screening of indicators by filters of the same material. The authors' modification, aimed at extending the possible energy range, consists of using the first resonances of neutron capture in W186, Mn55, and Na23. The filter resonant self-screening factors needed to make use of the method are calculated for different thicknesses of the indicators themselves and of the filters surrounding them. Plots of these factors, obtained by a Monte Carlo computer calculation, are presented. The method was used to measure the distribution of neutrons with energies corresponding to the first resonances of In155, Au¹⁹⁷, W¹⁸⁶, Mn⁵⁵, and Na²³ inside a uranium block measuring $70 \times 70 \times 90$ cm bombarding with neutrons in the Fermi spectrum. The results confirmed the possibility of 1/2 Card UDC: 539.125.52

rt. has: 4	figures, 1 table	, and 1 for	mula.	with the measure	ements. Orig.	
л соре: 18,	/ SUEM DATE:	29Nov65/	ORIG REF:	010		



S/130/61/000/010/003/004 A006/A101

AUTHOR: Mikhaylus', N. G. Fower Engineer of Shop no. 1

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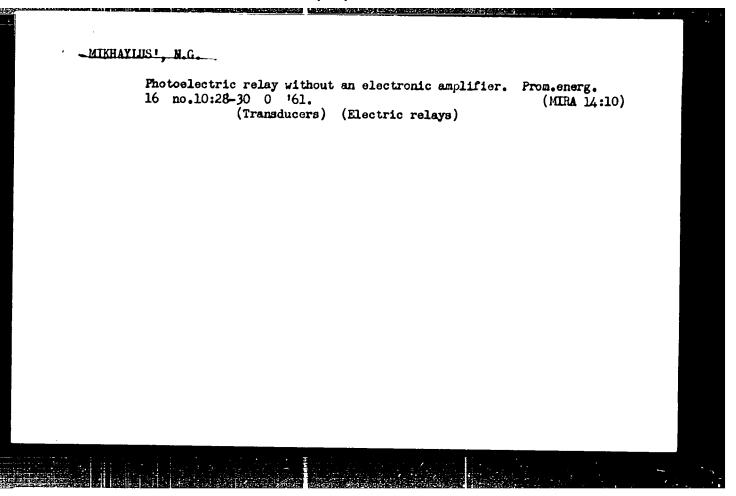
TITLE: Pipe normalization in a line

PERIODICAL: Metallurg, no. 10, 1961, 36.

PEXT. At the Yuzhnotrubnyy Pipe Plant a new and simple method was suggested for the normalization of pipes in a line. Freviously the pipes were after reliction cooled on a cooling table, straightened, normalized in a furnace and straightened again. Now sheet iron screens are placed underneath the chains of the cooling table and over the table, and form a chamber where the pipes are normalized instead of being quickly cooled on an open table. After reduction the pipes are supplied to this table where their temperature is $800 - 1,000^\circ$. The linear motion speed of the cooling table chains is 0.04 - 0.07 m/sec, depending on the pipe dimensions. This speed and 5 m long screens assure formatization of pipes within 75 - 130 sec, during a continuous motion of the chains. The pipes are automatically placed on the chain. Tests show that the quality of pipes thus normalized is not below that of pipes which had been treated in a special normalization furnace. This new method will yield savings of 45 kg

Card 1/2

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Pipe normalization in a line	\$/130/61/060/615/563;/104 A006/A161		
reference fuel and $8\ kw\text{-h}$ electric power per one ton of will be reduced. There is 1 figure.	pipes. Openational time		
ASSOCIATION Yuzhnotrubnyy zavod (Yuzhnotrubnyy Pipe Pl	arit)		
Card 2/2			



MIKHAYLUS!, N.G., inzh.

Improvement of the reversing performance of electric motors.
Prom.energ. 17 no.519 My '62. (MIRA 15:5)
(Electric driving)

AUTHOR:

Mikhaylus! . N.C., Engineer

\$/094/63/000/004/001/001

1004/11127

TITLE:

Jet relay used in an automation circuit ,

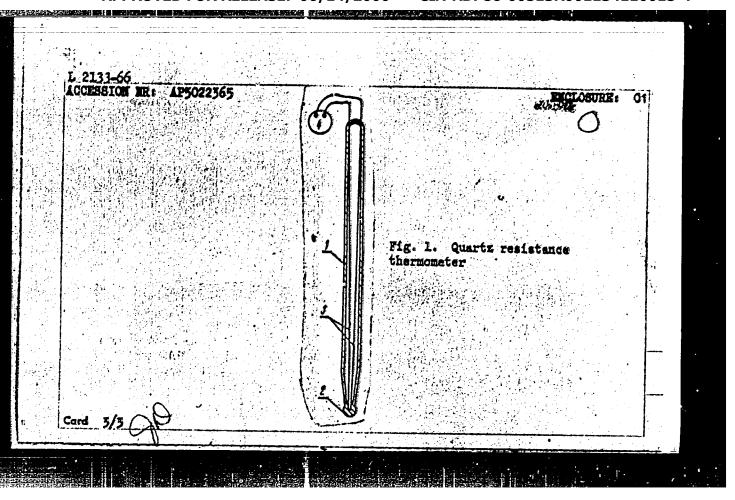
PERIODICAL: Promyshlennaya energetika, no. 4, 1965, 12 - 13

TEXT: The author describes a jet relay which is used as tube-position sensor at the entry and exit of an automated tube straightener of a Model 140 tube rolling mill. This jet relay has been in operation since 1960 and works satisfactorily where other types of inspection devices failed to yield satisfactory results. The water jet is a resistor whose magnitude depends on the chemical composition of the water and the length of the jet, which might insignificantly vary in the course of the year without impairing the sensitivity of the jet relay. The author presents a description of the functioning of the jet relay and an amplifier block-diagram. There are 2 figures.

Card 1/1

ENT(d)/ENT(m)/ENP(v)/ENP(t)/ENP(k)/ENP(h)/ENP(b)/ENP(l)/ETG(m) IJP(c) ACCESSION NR: AP5022365 UR/0115/65/000/007/0063/0064 556.531 AUTHORS: Morokh, A. M.; Mikhaylus', K. G. TITLE: Quartz resistance thermometer Imeritel'naya tekimika, no. 7, 1965, 63-64 TOPIC TAGS: measuring instrument; temperature measurement, quarts, tungsten, molybdenum, resistance thermometer ABSTRACT: A resistance thermometer has been developed for direct measurement of temperatures in high-frequency current fields or in aggressive reagents. It consists of an evacuated quartz tube 1 scaled at both ends (see Fig. 1 of the Enclosure). A bead 2 (2-3 mm in diameter) is formed at one end and holds two molybdenum or tungsten wires 3 (0.5-0.7 mm apart). These wires run through the tube which, if necessary, may be protected by a cover. The instrument is connected to an indicating or a registering device 4. It was established experimentally that a rise of temperature from 500 to 1600C lowers the bead resistance by a factor of 5 x 106, The thermometer is accurate, stable, and Card 1/5

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75 13 3 22/27

AUTHORS:

Sokolov, A. V., Mikhaylyan, N. K., Korotayeva G. P.

TITLE:

A Method for the Quantitative Determination of Dimethylphenylcarbinol (Metod kolichestvennogo opredeleniya dimetil

fenilkarbinola)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1958, Vol. 13, Nr. 3, pp. 368-369

(USSR)

ABSTRACT:

The determination of tertiary alcohols by the usual methods of esterification with acetic—acid—anhydride, phthalic acid anhydride or acetyl chloride invariably furnishes results which are too low since tertiary alcohols often separate water under the conditions of esterification. Likewise the general method of determination by Mitchel and Smit (Ref 1) is not applicable in the case dealt with by the authors as the dimethylphenylcarbinol was present in mixture with phenol and acetophenone and this compound under the acetylation and in the presence of boron trifluoride also reacts under the formation of water. Other known methods for the quantitative determination of dimethylphenylcarbinol are extremely cumbersome and for that reason hardly suitable for

Card 1/3

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75-13-3-22/27

A Method for the Quantitative Determination of Dimethylphenylcarbinol

industrial application. In the article concerned a quantitative method of determination for dimethylphenylcarbinol was worked out by the authors which is reliable and easily accomplishable under conditions prevailing in industry. Two processes are used as bacis: a) the dehydration of dimethylphenyloarbinol and b) the titration of separated water by means of the Karl Fischer reagent. The main attention was directed towards the discovery of conditions suitable for the dehydration of dimethylphenylcarbinol. Dehydraticn was carried out by means of various catalysts (copper-sulfate, borio-anhydride, sulfuric acid, sodium bisulfate) and in isopropylbenzens as solvents. It turned out that the separation of water in the presence of copper sulfate does not exceed 28 % and in the presence of boric anhydride and sul furic acid not 26 %. The highest degree of dehydration (92 %) was achieved by the use of 2 drops of concentrated H₂SO₄ the reaction mixture being heated to 85°. With increased heat, a resinification of the sample set in. The separation of water from dimethylphenylcarbinol yields much better results in the presence of sodiumsulfate and a resinification does not occur. It is therefore possible to raise the tem-

Card 2/3

75 .13 3 22/27

A Method for the Quantitative Determination of Dimethylphenylcarbinol

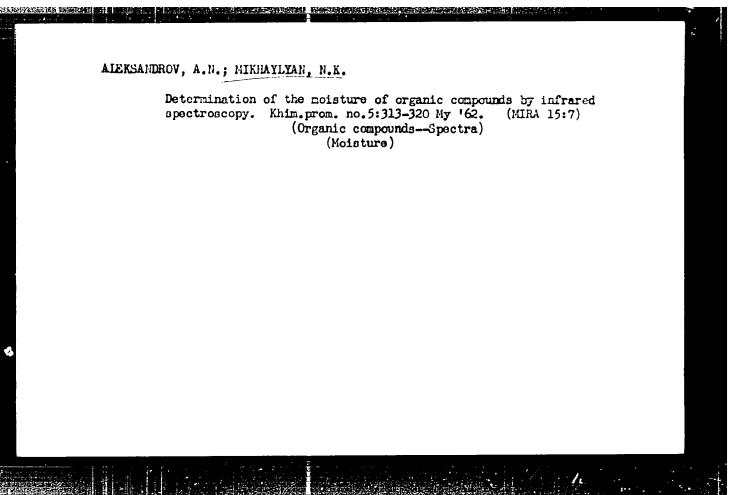
perature to the boiling point of isopropylbenzene. In order to prevent the evaporation of water the heat was increased only to the point of boiling (152°) and the sample was kept at this temperature for 10 minutes. It appeared that under these conditions and in the presence of 0.2 g sodium bisulfate dimethylphenylcarbinol was quantitatively dehydrated. The determination is not impeded by dimethylphenyl paracresol acetophenone and a methylstyrene. The error limit of the meth od described is about 1 %, the determination takes at the utmost 25 minutes. There are 2 tables and ' reference. 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtor i organicheskikh produktov. Moskva (Moscow Scientific Research Institute for Syntheti Alcohols and Organic Products)

_ Almonols - Determination

Card 3/3

CIA-RDP86-00513R001134110015-4" APPROVED FOR RELEASE: 06/14/2000



ALFISANDROV, A.L.; MIKHAYLYAN, N.K.; SEDOVA, G.A.

Determination of small quantities of water in acetaldehyde by infrared spectroscopy. Khim.prom. no.9:570-572 Ag '62.

(MIRA 15:9)

(Acetaldehyde) (Water—Spectra)

MIKHAYLYAN, N.K.; SOKOLOV, A.V.; SEDOV, G.A.

Determination of moisture in acetone. Zav. lab. 29 no.9:1058 '63.
(MIRA 17:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov.

MIKHAYLYANTS, O.A.

USER/ Miscellaneous - Ceramics monufacture

Card 1/1

Pub. 123 - 7/16

Authors

Nagornyy. A. I.; Frolov. V. E.; Lebedev. M. A.; Khokhol'kova. L. A.;

and Mikhaylyants, O. A.

Title

Manufacture of ceremic sewer pipes from Lengersk infusible clay

Pariodical

Vest. AN Kaz. SSR 12. 63-67. Dec 1954

Abstract

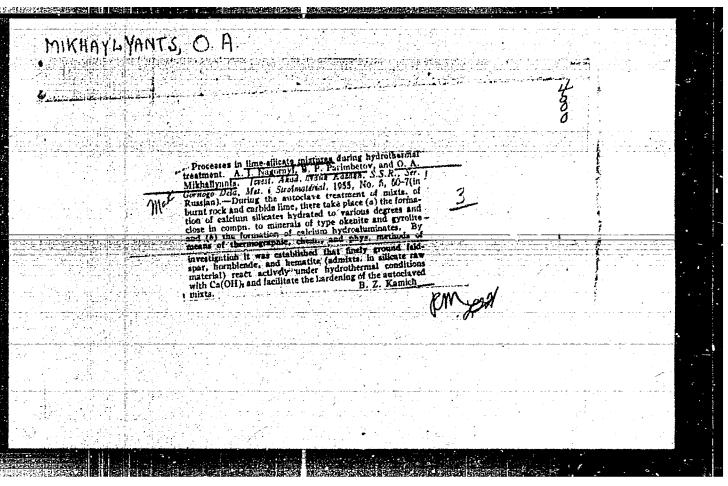
The possibility of manufacturing high-quality ceramic sewer pipes from infusible Lengersk clays are discussed. The technological process employed in the manufacture of refractory tubes is described. Two USSR references (1941 and 1952). Tables.

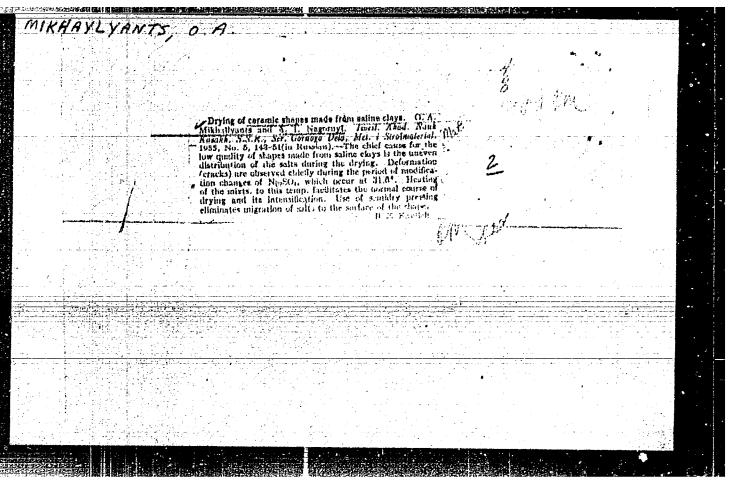
Institution :

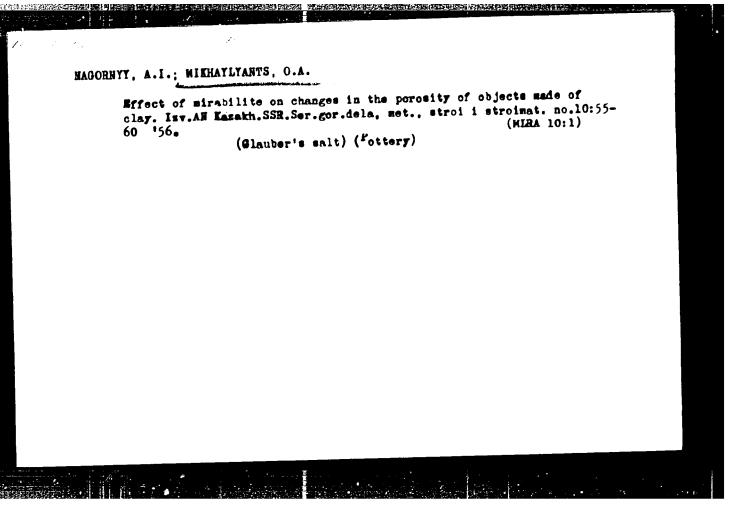
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Submitted

M. I. Goryaev, Active Member of Acad. of Sc. Kaz-SSR



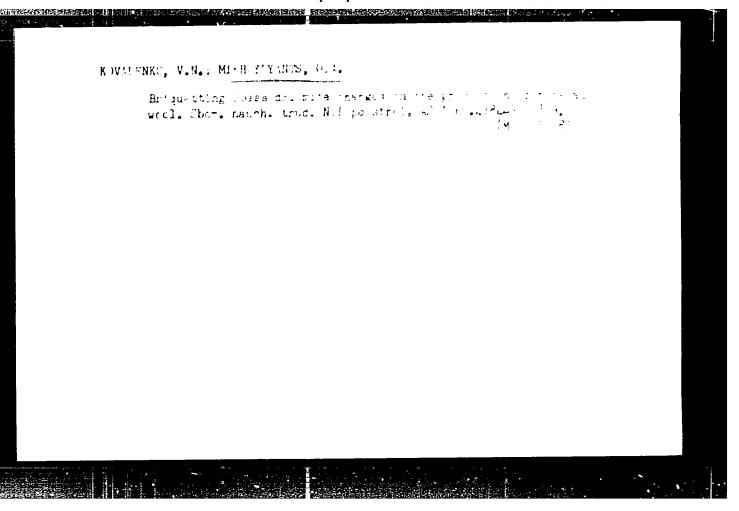




KOVALENKO, V. N.; MIKHAYLYANTS, O. A.; SALIDZHANOV, S. B.;
SHEYKH-ZADE, R. M.

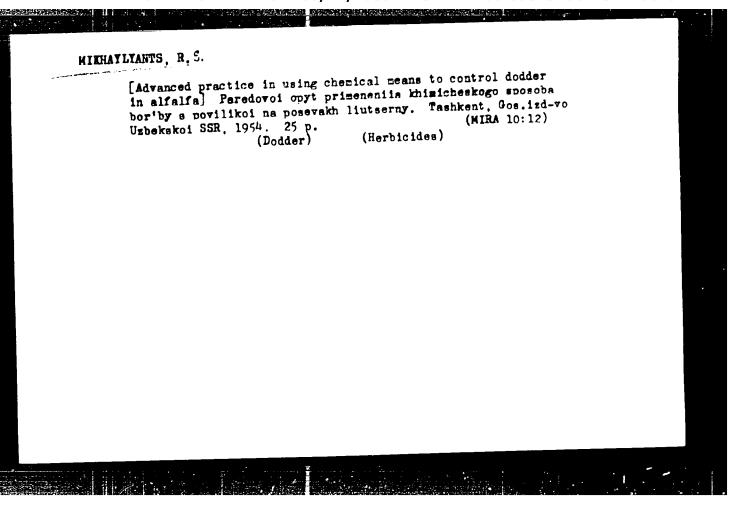
Mineral wool made of raw material from Tashkent District.
Sbor. nauch. trud. NII po stroi. ASiA no.2:63-68 '61.
(MIRA 16:1)

(Tashkent District—Mineral wool)



MIKHAYLYANTS, O.A.; MOROZOV, D.I.; POPOVICH, A.A.; SHEYKH-ZADE, R.M.

Diabases and spilites from northern Nuratau as raw materials for the production of mineral wool. Sbor. nauch. trud. NII postroi. ASIA no.4:72-77 163. (MIRA 17:8)



MIKHAILYANTS, R. S., Cand of Agric Sci — (diss) "Use of herbacides to control dodders in the sowing of alfalfa under the existing conditions of the Usbek SSR." Tashkent, 1957 19 pp, (Tashkent Agricultural Institutes, 125 copies (KL, 29-57,92)

ti

USSR / Weeds and Weed Control

Abs Jour: Ref Zhur-Biol., 1958, No 17, 77964

Author: Mikhaylyants, R. S.

Inst : Not given

Title : Explanations of the Conditions of Effectiveness

of Contact Herbicides Against Dodders on Lucerne

Crops.

Orig Pub: V ab.: Materialy Mezhresp. soveshchaniya po

koordinatsii nauchno-issled. rabot po khlop:ovodstvo, 1957, g. Tashkent, AN UzSSR, 1957, 193-197

Alstract: One of the conditions of effectiveness of lucerne

crop culci/ations against dodder is low mowing (5-8 cm). The stubble must be treated with

Card 1/3

USSR / Weeds and Weed Control
Abs Jour: Ref Zhur-Biol., 1958, No 17, 77964

Abstract: herbicides over 3-4 days after mowing. Dinitroo-cresol was tried, and ammoniated and triethanolamine salts of dinitrophenol (DNPA and TEADNP) sodium pentachlorphenolate (PCP), preparation No 125 and a garden carbolineum-concentrate of emulsion of anthrocine oil (CEAO) were tried. Spraying of DNPA in a 4% concentration gave high lestruction of doller in tests in 1955 (outlay of solution - 800 1/ha). Herbicide (1, 125 (4%) and PCP (3-4%), with a normal solution outlay of 800 1/ha, are very effective, and assure full destruction of dodder. Of these preparations, some preference for effectiveness can be gi en o PCP, but for influence on the yield of lucerne, the preferred is predominantly in favo. of preparation No 125 (product of slate coking, designated

card 2/3

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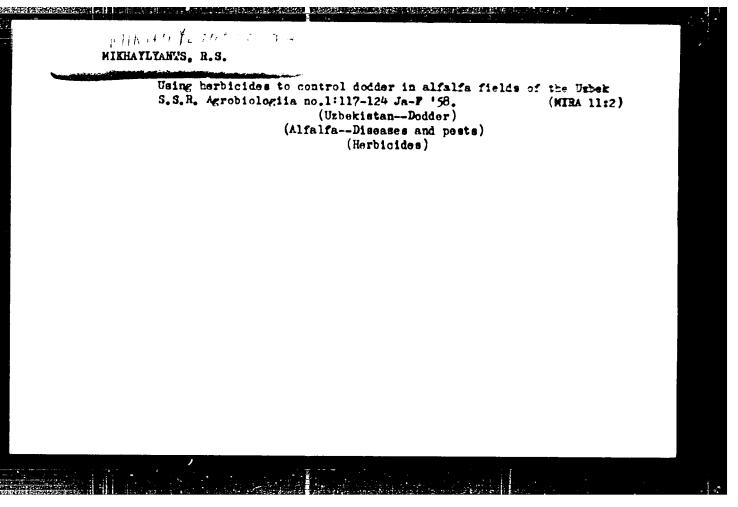
USSR / Weeds and Weed Control

Abe Jour: Ref Zhur-Biol., 1953, No. 17, 77964

Abstract: VIZR-REF). In tests in 1956, CEAO showed satisfactory results; however, it has little future, factory results; however, it has little future, in view of the necessity of the use of large losages - 180 kg/ha for oil.

"Effectiveness of Contact Herbicides Against Dodder in Alfalfa Fields," by R. S. Mikhaylyants, Merited Agronomist Uzbek SSR, Zashchita Rastenly of Vreditely i Bolezney, Vol 2, No 3, May/Jun 57, pp 58-59

Experiments conducted by the author, V. E. Kreytsberg, P. P. Arkhangelskiy, Yu. B. Bezrukov, and V. A. Selikhovich, associates at the Uzbek Quarantine Laboratory, established that the phenol derivatives—sodium dinitroorthocresolate, ammonium and triethalammonium salts of dinitrophenol, sodium pentachlorophenolate, and Preparation No 125—are effective against dodder, a parasitic plant which infests alfalfa fields. Preparation No 125 was found to be the most effective of the compounds. The methods of application of Preparation No 125 is as follows: on the discovery that dodder infests an alfalfa field, the crop should be cut as soon as possible for hay and removed from the field; the stubble and weeds should then be treated with Preparation No 125. The chemical should not be applied before 25 June. The number of parasitic plants in the succeeding sowing will be considerably reduced. (U)



USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

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M-5

: Ref Zhur - Biol., No 20, 1958, 91746 Abs Jour

Author

: Mikhaylyants, S.

Inst Title

: Artificial Desicration of Cotton as a Method of Accele-

rating Boll Opening.

Orig Pub

: Khlopkovodstvo, 1957, No 8, 35-37.

Abstract

: The effect of artificial desiccation of cotton on the accelaration of boll opening was studied at a number of rayons in Ferganskaya Oblast in 1956 on an area of 2732 hectares. The cotton plants were treated during the period of 5-20 Octover with a 3% solution of Nn arsenite. From the entire area 1842 hectares were treated from airplanes at the rate of 150-200 liters per hectare and 890 hectares were treated with tractor drawn sprayers at the rate of 500-600 liters per hectare. For the experiment, plots with tall, densely planted cotton were selected.

Card 1/2

် MIKHAYOLYANTS

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110015-4

MBS. JOUR.

: RZhbiol., No. 1., 1959, No. 15724

AUTHOR INST.

MITLE

: Likhnylvents, S. Pergana Motor Tractor Station : Reserve Waterings in Kolkhozy of the Ferganskaya

MTS Zone

bmg. PUB. : Thistory vade tvo, 1958, No.2, 22-25

MARSTRACT

The findings of experiments by a number of kolkhozy of the Ferganskaya MTS Uzbek SSR in carrying out reserve presowing instead of waterings of fields under cotton supplementary nutrition waterings. For the purpose of getting unanimous full-value sprouts at optimare made in the autumn al dates, such waterings ploughland or in the presence of upraised in spring (in its absence) after spring plowing. Ferganskly rayon, the use In 1957 in the

CARD:

1/2

Subject

: USSR/Electricity

AID P - 3541

Card 1/1

Pub. 29 - 5/27

Author

Mikhaylyants, Ye. Ye., Eng. and the second section of the second section of the second section of the second

Title

Controller of steam supply on the turbine labyrinth

Periodical

: Energetik, 11, 9-10, N 1955

Abstract

The author describes a steam-feeding device with a

controller designed by I. P. Kuz'min and M. D. Yemel'yanov,

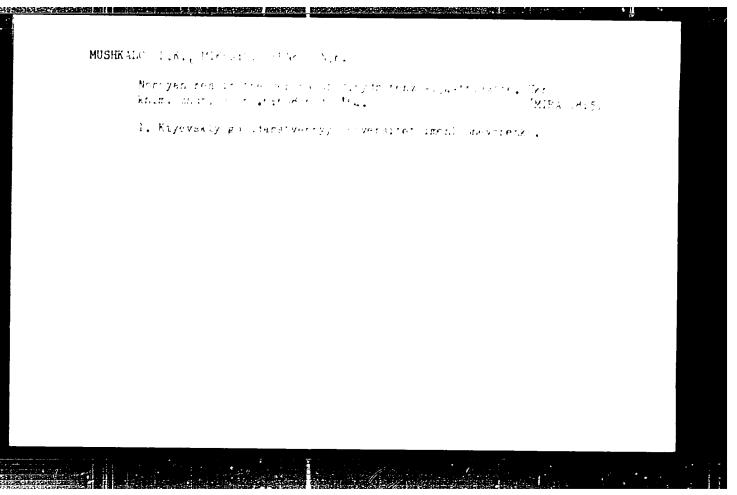
foremen. The controller regulates steam supply to the

turbine labyrinth packing. One drawing.

Institution : None

Submitted

: No date



L 3\(\begin{align*} \text{L 3\(\begin{align*

AUTHOR: Lozinskiy, N. N.; Mikhaylychev, V. I.

8+1

TITLE: Statistical evaluation of some principal parameters of control-machine digital computers

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatizirovannyy elektroprivod (Automated electric drive). Leningrad, Izd-vo Nauka, 1964, 176-187

TOPIC TAGS: digital computer, control computer 160

ABSTRACT: A tentative statistical approach to the problem of selecting fundamental parameters of a control-type digital computer is described. The computer comprises: external and internal storages, an arithmetic unit, a control unit, analog-digital input converters, and digital-analog output converters. Storage capacities and time of operation are sought. Statistics are used for analyzing the factual material accumulated in the course of designing

Card 1/2

L 34154-65

ACCESSION NR: AT5003620

control computers and for processing this material by the Monte-Carlo method. The analysis is divided into 3 stages: (1) Evaluation of the program capacity for a specified count pattern; (2) Evaluation of the program length for each of N problems; (3) Estimation of the program length and time required to solve all N problems. The speed of operation is determined for these 3 types of problems: (a) continuous, (b) single, and (c) episodic (incidental). Orig. art. has: 4 figures, 9 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 08Jul64

ENCL: 00

SUB CODE: DP

NO REF SOV: 002

OTHER: 002

Card 2/2

ACCESSION NR: AT5003622

5/0000/64/000/000/0202/0208

41

AUTHOR: Mikhaylychev, V. I.

8+1

TITLE: Shaft-angle into digital code conversion %U

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatizirovannyy elektroprivod (Automated electric drive). Leningrad, Izd-vo Nauka, 1964, 202-208

TOPIC TAGS: shaft digitalizer, angle to digit converter,

ABSTRACT: The drawbacks of conventional harmonic-voltage phase-shift methods are discussed. In the new method, the phase shifter is supplied with pulses from a computer modulated according to the sine-cosine law (see Enclosure 1). A sequence of sine-modulated pulses appears at the output winding of the phase shifter. The phase difference between the envelopes of two sine waves is proportional to the angle of rotation. The new method is claimed to have these advantages: (1) Small power needed for supplying the phase shifters:

Card 1/3

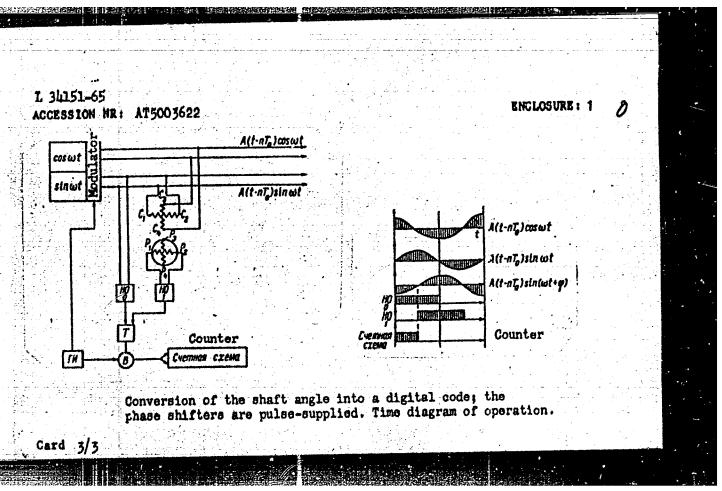
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ACCESS	ION NR: AT500	3622				0	
(3) Whe special required machine	ple circuits for a n the digital com means for synch d because the bal pulses. A 2-3- . Orig. art. ha	puter is de ronizing the lance-detec transistor	signed with e balance d tor pulses pulsed am	h rigid-sy letector w come in s plifier ma	nchronization ith the maching synchronism	n elements, n inc elements with the	
ASSOCI	ATION: none						

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OTHER: 000

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110015-4



POCHINOK, V.Ya.; MIKHAYLYUCHENKO, M.K.

Triazeno alcohols from ω-azidoacetophenone. Ukr.khim.zhur. 21 no.5: 625-627 '55. (MLRA 9:3)

 Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko, Kafedra organicheskoy khimii.
 (Alcohols) (Acetophenone)

MUSHKALO, L.K.; MIKHAYLYUCHENKO, N.K.

Cyanine dyes from seven-link heterocyclic systems. Pert 4:

Dyes in the naphthothiazepine series. Ukr.khim.zhur. 30 no.2:
202-206 '64. (MIRA 17:4)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.

ACC NR. AP6028901

SOURCE CODE: UR/0079/66/036/008/1442/1444

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AUTHOR: Shokol, V. A.; Hikhaylyuchenko, N. K.; Derkach, G. I.

THE PROPERTY WAS BEEN MADE AND AND AND ASSESSED.

ORG: Institute of Organic Chemistry, Academy of Sciences, UkrSSR (Institut organicheskoy khimii Akademii nauk UkrSSR)

Reactions of compounds of trivalent phosphorus with N-chloro-TITLE: amides. II. Reactions of phosphites with N-chloro-N-alkylurethenes

SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1442-1444

TOPIC TAGS: insecticide, alkylphosphonocarbamic acid ester, Organic ABSTRACT: N-chloro-N-alkylurothanes roact with trialkyl phosphites to

> $ROCON(R')Cl + (R''O)_5P \longrightarrow [ROCON(R')P(OR'')_5]^*Cl^- \longrightarrow$ → ROCON(R')PO(OH")2 + R"CI.

Without solvent the reaction is very vigorous, therefore, it is conducted in benzene solution with boiling. The diesters of H-alkylphosphonocarbamic acids are effective insecticides and at the same time they are harmless to humans and animals. The initial N-chloro-N-alkylurethans were obtained by chlorination of N-alkylurethanes or by methylation

Card 1/3

UDC: 547.495.1

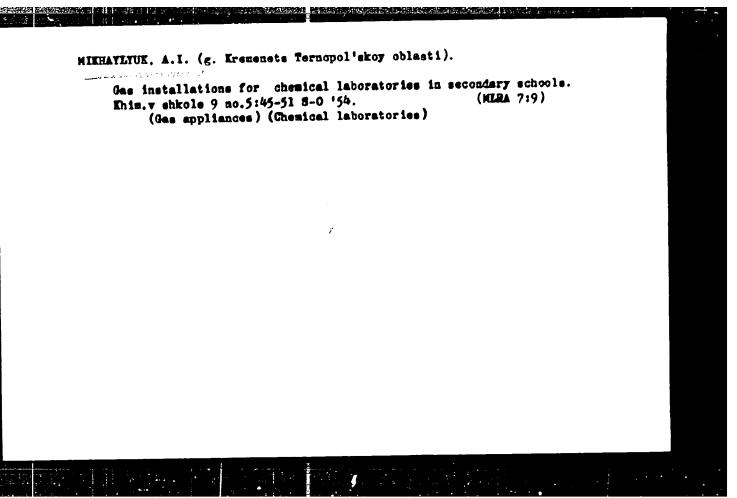
f N-chloroureth	anes with dimethy	l sulfate:			
	ROCONHO! (CH,O)	BOCONIBUCI.			
Composition and prig. art. has:	properties of the l table.	diesters are gi	iven in the	w.A. 50]	
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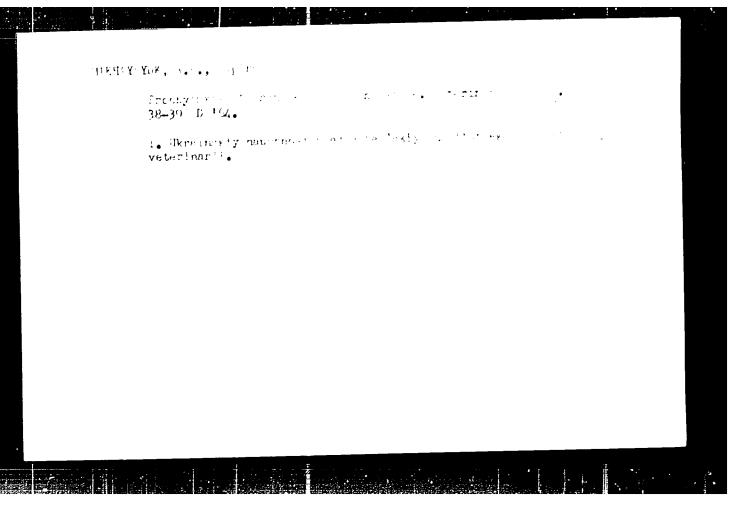
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	Cu.	C.H.	C4N4	- 55	9495 (0.4)	1 1348	1.4333	54.81	54.57	13.19	C ₀ II ₁₈ NO ₈ P	. 12 95	
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. !	C.B.	CH.	CH,	50	71—72 (0.4)	1.2160	1.4343	45.27	45.33	14.23	C ₀ II ₁₀ NO ₀ P	14 91	
	C ₀ R ₀	CB.	Cene	63	83—84 (0.5)	1 1310	1.4301	54.63	54.57	12.23	C _B H _{2B} NO _B P	12 95	,
:	C*R*	cn,	leo-Call,	65	91—92 (0.7)	1.0770	1.4277	63.81	63.AO	11.51	C18HENO P	11.59	
	100 C ₂ R ₇	CH,	Cu.	57	114—115 (3)	1.1657	1.4309	49.09	49.95	13.68	C ₇ H ₁₈ NO ₈ P	12 76	
	Lee-Cille	CII,	C _i H ₀	50	9899 (1.5)	1.1041	1 4292	59 14	58.18	12.42	C ₆ II _M NO ₆ P	12.24	
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TOTAL PARTICIPATION OF THE PROPERTY OF THE PRO ACC NR: AP6028901 SOURCE CODE: UR/0079/66/036/008/1442/1444 AUTHOR: Shokol, V. A.; Hikhaylyuchenko, N. K.; Derkach, G. I. ORG: Institute of Organic Chemistry, Academy of Sciences, UkrSSR (Institut organicheskoy khimii Akademii nauk UkrSSR) Reactions of compounds of trivalent phosphorus with N-chloroamides. II. Reactions of phosphites with N-chloro-N-alkylurethanes SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1442-1444 TOPIC TAGS: insecticide, alkylphosphonocarbanic acid ester, Organic plosphonus compound ABSTRACT: N-chloro-N-alkylurethanes react with trialkyl phosphites to $ROCON(R')Cl + (R''O)_3P \rightarrow [ROCON(R')P(OR'')_3]^*Cl^- \rightarrow$ \rightarrow ROCON(R')PO(OH")₂ + R"CI. Without solvent the reaction is very vigorous, therefore, it is conducted in benzene solution with boiling. The diesters of N-alkylphosphonocarbanic acidspare effective insecticides pand at the same time they are harmless to humans and animals. The initial N-chloro-N-alkylurethens were obtained by chlorination of N-alkylurethenes or by methylation <u>Card</u> 1/3 UDC: 547.495.1

ACC NR. AP6028901				
of N-chlorourethane	o with dimethyl	Aulfatat		
	ROCONIIN' CI,			
	ROCONHCI (CH,O),80	ROCONIBUCL		
Composition and pro Orig. art. has: 1	perties of the		ven in the	table. [W.A. 50]
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Card 2/3]

			R Yield			••		r.	Fqup4	Formula	Calc'd	
•	a *	r		bp (p in ma)	•;• 		found	Calc'd			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				6384* (1.5)	1.2774	1.4366	40.40	40.71	16.02	C ₅ II ₁₈ NO ₆ P	15.71	
CH,	CH,	CH,	4	87—68 (1.5)	1,1660	1,4310	50.00	(0.85	13.65	C,HIONO,F	13.76	
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CH ₉	CH,	bec,H,	s	84-85 (0.4)	1.1348	1.4333	54.81	54.57	13.19	CalliaNO4P	. 12.85	
cn.	C _t H _t	C ₁ H ₀	50	90-91 (0.3)	1.0730	1.4285	44.12	63.60	11.63	C ₁₆ H ₁₂ NO ₆ P	11.59	
CH,	CH,	CH,	50	71-72 (0.4)	1.2160	1.4343	45.27	45.33	14.23	C ₆ H ₁₄ NO ₆ P	16.01	
C ₂ H ₄	CH.	Ga#4	10	83-84 (0.5)	1.1310	1.4301	54.63	\$4.57	(3.23	C ₆ H ₁₆ NO ₆ F	12.65	
C _a H _a	CB.	lee-C.N.	65	91-92 (0.7)	1.0770	1.4277	63.61	63.60	11.51	CHH MOSP	11.50	
ine-Gills	CH.	CH ₀	57	(14115 (3)	1.1657	1.4309	49.00	(9.65	(3.66	C,HMNO,F	13.76	
Loo-Cally	CH.	C _s N _e	54	96-00 (1.5)	1.1041	1.4292	50.14	\$0.18	12.42	CellentOrP	12.24	-
too-C,E,	C#,	tee-C₁H,	**	508—(08 (1.5)	1.0520	1.4270	44.64	66.42	11.04	C++H++NO+P	10.01	
\$00-~1-1							١.	1	<u> </u> 			





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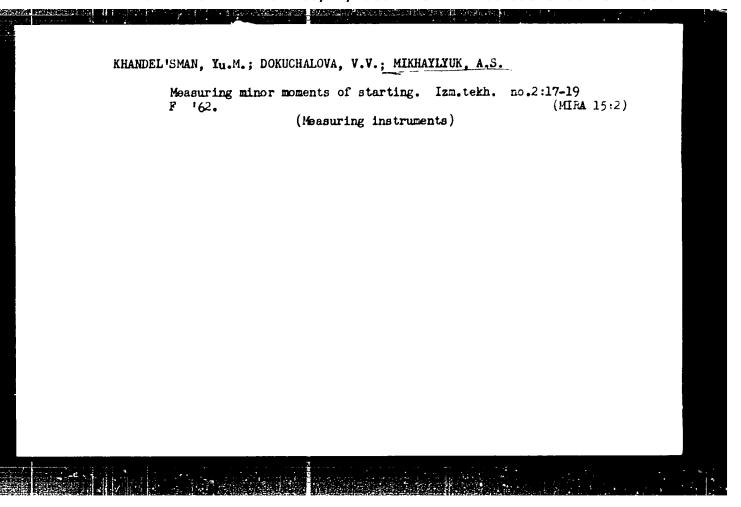
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Abs Jour: Ref Zhur - Biol., No 18, 1958, 81438

Author : Shugaylo, V.T., Mikhaylyuk, I.A.

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: A Study of Actinomycete-Antagonists Isolated from Soils of the Korovograd Region. Title

Orig Pub: Sb. nauchn. rabot. Dnepropetr. med. in-ta, 1956,

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Harvesting by stages in Siberia. Hauka i pered.op.v sel'khoz. 7 no.6:25-26 Je '57. (MERA 10:7) 1. Glavnyy agronom Kartashevskoy Mashinno-traktornoy stantsii Omskoy oblasti. (Siberia--Grain--Harvesting)

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Abs Jour : Ref Zhur Biol., No 1, 1959, 1409

Author : Mikhayiyuk, I.N.

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Title : In Defense of Mal'tsev's Agricultural Techniques

Orig Pub : S. kh. Sibiri, 1958, No 1, 14-18

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Card 1/1

- 33 -

24(2), 24(6), 18(6)

AUTHORS: Kushta, G. P., Mikhaylyuk, I. P. and Korolyuk, G. F.

TITLE: Influence of Alloy Element Additions on the Interatomic Bond Forces of the Aluminium Lattice (Vliyaniye legiruyushchikh primesey na sily mezhatomnoy svyazi v reshetke alyuminiya) l. Influence of Copper (1. Vliyaniye medi)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 2, pp 299-301 (USSR)

ABSTRACT: The study of the mechanism by which the characteristic temperature of solid solutions changes as a function of their composition, is one of the most important means for the determination of the nature of reactions between atoms of solid solutions. In a paper by Kushta (Ref 7), one of the authors has shown that the great strength of the auralumin type of alloys is not associated with formation of stronger bond forces between the atoms in the lattice of these alloys. Duralumin, however, contains a number of alloy elements (Cu, Mg, Si, Mn and others), each of which may exert a different influence, as the nature and extent to which bond forces change in solid Card 1/6 solutions depend on the properties of each alloy element

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Influence of Alloy Element Additions on the Interatomic Bond Forces of the Aluminium Lattice 1. Influence of Copper

and its concentration in the solid solution (see Refs 3,5 and 9). It appears appropriate that the influence of each of the alloy constituents on the bond forces in the solid solution should be studied. Technically pure aluminium of specification AI and electrolytic copper were used as materials for making alloys. Specimens were made in porcelain crucibles by thermodiffusion of copper in molten aluminium at 800°C. Melting was carried out under a layer of flux. The characteristic temperature of the specimens was determined by the change of the heat factor of the X-ray interference line intensity. The specimens for X-ray exposure were made from powder produced by filing, which was annealed for 10 hours in vacuum at 500°C, and had a cylindrical shape, the diameter being 0.8 mm (* The practically instantaneously cooled powder specimens were X-rayed at once after cooling. This permits the assumption that the copper concentration in the solid solution was practically identical with the one given.) X-rayin, was carried out in an open camera of the type RKD in the rays of a copper

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anticathode at two temperatures - room temperature and liquid air temperature. In the last case, the specimen was sprayed with a stream of liquid air by means of a special siphon device (Ref 1). In order to obtain the line (333) for aluminium in X-ray pictures, a special (non-standard) collimator was used. X-ray photographs, taken at room temperature and at a low temperature, were developed under identical conditions and were then photometered in a visual microphotometer of type MF-2. For the determination of the characteristic temperature from the X-ray results a method was used wnich had been worked out by Il'ina et al. and Kurdyumov et al. (Refs 10 and 3 respectively). The relative intensities of the lines (111), (222), (422) and (533) were experimentally measured. The results of the measurements were neutralised along two directions of the A-ray picture for 2-5 X-ray photographs. The intensity of the lines was calculated as an area, bounded by the photometric curve and the base line. The intensity of the Card 3/6 line (333) was calculated as the sum of the areas of two

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lines of the $K\alpha_{1,2}$ doublet. In Fig 1 the results of the measurements are shown in the form of a logarithmic dependence of the intensity ratio

$$\frac{(\dot{\mathbf{i}}_{h_{2}k_{2}}\boldsymbol{\ell}_{2}/\dot{\mathbf{i}}_{h_{1}k_{1}}\boldsymbol{\ell}_{1})_{20^{\circ}}}{(\dot{\mathbf{i}}_{h_{2}k_{2}}\boldsymbol{\ell}_{2}/\dot{\mathbf{i}}_{h_{1}k_{1}}\boldsymbol{\ell}_{1})_{-185^{\circ}}} = \frac{\alpha_{1}}{\alpha_{2}}$$

on the difference of the sums of the index squares of corresponding pairs of lines for pure aluminium and its alloys with 2, 3 and 4 wt.% copper. From the figure it can be seen that the change of the heat intensity factor on introducing copper into the solid solution changes in the direction of decrease of the mean square of displacement of the atoms during oscillations, and of increase in the temperature of the solid solution, Card 4/6 i.e. in the direction of increase of the bond forces of

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the lattice. From the tangent of inclination of the straight line in Fig 1, using the formula ${\bf r}$

$$\ln \frac{\alpha_1}{\alpha_2} = A\varphi (\theta) \left(\sum h_2^2 - \sum h_1^2\right),$$

where

$$A = \frac{3h^2}{a^2mk\theta}, \quad \phi(\theta) = \begin{bmatrix} \frac{\Phi(\theta|T_1)}{\theta|T_1} & -\frac{\Phi(\theta|T_2)}{\theta|T_2} \end{bmatrix}$$

Φ - Debye's function, the values of Δ⁻² and of the characteristic temperature θ were determined. The calculated values of θ and υ

 α which are characteristic of the strength of the interatomic bond of the solid solution lattice, are shown in the Table. The accuracy with which the characteristic temperature can be determined is within ± 8 to 10°. The observed increase in bond force with increase in copper content in the solid solution coincides with a decrease in the lattice parameter of aluminium on introducing copper. As the